

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 9 July 2004

Page 2 of 12

**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Previously presented) An automated recommendation system, comprising:
  - a processor connected to receive resource data defining available resources and at least two sets of profile data, each defining user preferences with respect to the resources;
  - each of the sets of profile data being derived from a different class of interaction of the user with a first portion of the resource data and usable to predict a given resource's desirability based on each of the sets;
  - the processor being adapted to:
    - generate at least two sets of predictions based on one or a combination of the sets of profile data, and
    - combine the predictions by weight-averaging corresponding ones from each of the at least two sets of predictions.
2. (Previously presented) A system as in claim 1, wherein
  - the processor is further adapted to:
    - generate a weighted sum of corresponding records from each of the sets of profile data to generate a single combined set of profile data
    - generate at least one of the sets of predictions from the single combined set.
3. (Previously presented) A system as in claim 2, wherein
  - the processor is connected to control a delivery of resources corresponding to the resource data and responsively to the predictions.

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 9 July 2004

Page 3 of 12

4. (Previously presented) A system as in claim 1, wherein  
the processor is connected to control a delivery of resources corresponding to the resource data and responsively to the predictions.
5. (Previously presented) A system as in claim 1, wherein  
the at least two profile data sets include  
a feedback data set derived from ratings provided by the user with respect to a particular resource in the resource data.
6. (Previously presented) A system as in claim 1, wherein  
the at least two profile data sets include  
an implicit data set derived from machine-observation of a user's resource use history, whereby the implicit data reflects the user's selections of resources to use.
7. (Previously presented) A system as in claim 1, wherein  
at least one set of the at least two profile data sets comprises input vectors, and  
the input vectors each include feature-value pairs.
8. (Previously presented) A system as in claim 1, wherein  
at least one set of the at least two profile data sets comprises input vectors, and  
the input vectors include feature-value pairs and a rating value.

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 9 July 2004

Page 4 of 12

9. (Previously presented) A method of recommending resources, comprising :
- generating at least two sets of profile data based on expressed preferences of a user with respect to the resources each being usable to predict a given resource's desirability based on each of the sets;
  - generating at least two sets of predictions based on one or a combination of the sets of profile data; and
  - combining the predictions by weight-averaging corresponding ones from each of the at least two sets of predictions.
10. (Previously presented) A method as in claim 9, further comprising:
- generating a weighted sum of corresponding records from each of the sets of profile data to generate a single combined set of profile data; and
  - generating at least one of the sets of predictions from the single combined set.
11. (Previously presented) A method as in claim 10, further comprising
- controlling a delivery of resources corresponding to the resource data responsively to the predictions.
12. (Previously presented) A method as in claim 9, further comprising
- controlling a delivery of resources corresponding to the resource data responsively to the predictions.
13. (Previously presented) A method as in claim 9, wherein
- generating the at least two sets of profile data includes
    - generating a feedback data set by accepting ratings from a user with respect to a particular resource in the resource data.

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 9 July 2004

Page 5 of 12

14. (Previously presented) A method as in claim 9, wherein  
generating the at least two sets of profile data includes  
generating an implicit data set by observing a user's resource use history,  
whereby the implicit data reflects the user's selections of resources to use.
15. (Previously presented) A method as in claim 9, wherein  
at least one set of the at least two sets of profile data comprises input vectors, and  
the input vectors each include feature-value pairs.
16. (Previously presented) A method as in claim 9, wherein  
at least one set of the at least two sets of profile data comprises input vectors, and  
generating the at least two sets of profile data includes generating feature-value  
pairs and a rating value.
17. (Previously presented) A method as in claim 9, wherein:  
the sets of profile data includes  
a set of explicit profile data indicating express indications by a user of  
preferred classes of programming rather than indications by the user of particular  
resources that are preferred;  
the sets of profile data further include  
feedback data set derived from ratings provided by the user with respect to  
a particular resource in the resource data; and  
the sets of profile data further include  
an implicit data set derived from machine-observation of a user's resource  
use history, whereby the implicit data reflects the user's selection.

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 9 July 2004

Page 6 of 12

18. (Currently amended) An automated recommendation system, comprising:
- a processor connected to receive resource data defining available resources and sets of profile data, each defining user preferences with respect to the resources;
  - the sets of profile data including
    - a set of explicit profile data indicating express indications by a user of preferred classes of programming rather than indications by the user of particular resources that are preferred;
    - the sets of profile data further including
      - feedback data set derived from ratings provided by the user with respect to a particular resource in the resource data; and
      - the sets of profile data further including
        - an implicit data set derived from machine-observation of a user's resource use history, whereby the implicit data reflects the user's selection;
        - the processor being adapted to generate at least two sets of predictions based on one or a combination of the sets of profile data, each of the predictions including a confidence level;
        - the processor being further adapted to combine the predictions by weight-averaging corresponding ones from each of the at least two sets of predictions.
19. (Previously presented) A system as in claim 18, wherein
- the processor is further adapted to adjust weights of the weight averaging responsively to a difference between the corresponding ones.
20. (Previously presented) A system as in claim 18, wherein
- the processor is further adapted to selectively override the weight averaging responsively to a difference between the corresponding ones.

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 9 July 2004

Page 7 of 12

21. (Currently amended) A method of automatically recommending resources, comprising :

receiving resource data defining available resources and sets of profile data, each defining user preferences with respect to the resources;

the sets of profile data including

a set of explicit profile data indicating express indications by a user of preferred classes of programming rather than indications by the user of particular resources that are preferred;

the sets of profile data further including

feedback data set derived from ratings provided by the user with respect to a particular resource in the resource data; and

the sets of profile data further including

an implicit data set derived from machine-observation of a user's resource use history, whereby the implicit data reflects the user's selection;

generating at least two sets of predictions based on one or a combination of the sets of profile data, each of the predictions including a confidence level;

combining the predictions by weight-averaging corresponding ones from each of the at least two sets of predictions to produce a combined set.

22. (Previously presented) A method in claim 21, wherein

combining the predictions includes

adjusting weights of the weight averaging responsively to a difference between the corresponding ones.

Appl. No. 09/627,139  
Amendment and/or Response  
Reply to Office action of 9 July 2004

Page 8 of 12

23. (Previously presented) A method as in claim 21, wherein  
combining the predictions includes  
selectively overriding the weight averaging responsively to a difference  
between the corresponding ones such that a prediction of a one of the sets of predictions  
is included in the combined set and a prediction of the other of the sets of predictions is  
excluded.
24. (Previously presented) A method of combining profile data, comprising :  
generating first profile data by receiving through a user interface user preferences  
in the form of expressed generalized preferences corresponding classes of resources;  
generating second profile data by receiving user preferences in the form of rating  
data corresponding to specific resources;  
applying the first and second profile data to respective prediction engines and  
combining respective results thereof.
25. (Previously presented) A method as in claim 24, further including:  
combining the first and second profile data,  
wherein  
combining the first and second profiles includes weight averaging corresponding  
ones of the profile data.
26. (Previously presented) A method as in claim 24, wherein  
combining respective results includes selectively weight averaging corresponding  
ones of the predictions.
- 27-29 (Canceled).